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PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0651-0032

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**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

☐ Declaration Submitted with Initial Filing      OR      ☒ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

|                          |                |
|--------------------------|----------------|
| Attorney Docket Number   | NC17533        |
| First Named Inventor     | Kiran Kuchi    |
| <b>COMPLETE IF KNOWN</b> |                |
| Application Number       | 09 / 819,573   |
| Filing Date              | March 28, 2001 |
| Group Art Unit           | 2631           |
| Examiner Name            | Not Known      |

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**NON-ZERO COMPLEX WEIGHTED SPACE-TIME CODE FOR MULTIPLE ANTENNA TRANSMISSION**

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY) **March 28, 2001**

as United States Application Number or PCT International

Application Number **09/819,573** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed     | Certified Copy Attached? |                          |
|-------------------------------------|---------|----------------------------------|--------------------------|--------------------------|--------------------------|
|                                     |         |                                  |                          | YES                      | NO                       |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

| Application Number(s) | Filing Date (MM/DD/YYYY) | <input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto. |
|-----------------------|--------------------------|--|
|                       |                          |  |

[Page 1 of 2]

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## DECLARATION — Utility or Design Patent Application

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR :

☐ A petition has been filed for this unsigned inventor

Given Name

(first and middle [if any])

Kiran

Family Name

or Surname

Kuchi

Inventor's  
Signature



Date

June 01, 2001

Residence: City Irving

State TX

Country USA

Citizenship Indian

Mailing Address 1220 Hidden Ridge #1083

Mailing Address

City Irving

State TX

ZIP 75038

Country USA

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name

(first and middle [if any])

Ari

Family Name

or Surname

Hottinen

Inventor's  
Signature



Date

May 17 2001

Residence: City Espoo

State

Finland  
Country

Citizenship Finnish

Mailing Address Ristiniementie 4 o 30

Mailing Address

City Espoo

State

ZIP 02320

Country Finland

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

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PTO/SB/02A (11-00)  
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|                    |   |
|--------------------|---|
| <b>DECLARATION</b> | <b>ADDITIONAL INVENTOR(S)</b><br><b>Supplemental Sheet</b><br>Page <u>1</u> of <u>1</u> |
|--------------------|---|

|   |       |   |                     |
|---|-------|---|---------------------|
| <b>Name of Additional Joint Inventor, if any:</b> |       | <input type="checkbox"/> A petition has been filed for this unsigned inventor |                     |
| Given Name (first and middle [if any])            |       | Family Name or Surname  |                     |
| Olav  |       | Tirkkonen   |                     |
| Inventor's Signature                              |       | Date <u>May 17 2001</u>   |                     |
| Residence: City Helsinki                          | State | Country Finland   | Citizenship Finnish |
| Mailing Address Purontiitynpolku 5 A 6            |       |   |                     |
| Mailing Address                                   |       |   |                     |
| City Helsinki                                     | State | ZIP 00720   | Country Finland     |
| <b>Name of Additional Joint Inventor, if any:</b> |       | <input type="checkbox"/> A petition has been filed for this unsigned inventor |                     |
| Given Name (first and middle [if any])            |       | Family Name or Surname  |                     |
|   |       |   |                     |
| Inventor's Signature                              |       | Date  |                     |
| Residence: City                                   | State | Country   | Citizenship         |
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| Mailing Address                                   |       |   |                     |
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| Given Name (first and middle [if any])            |       | Family Name or Surname  |                     |
|   |       |   |                     |
| Inventor's Signature                              |       | Date  |                     |
| Residence: City                                   | State | Country   | Citizenship         |
| Mailing Address                                   |       |   |                     |
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PTO/SB/81 (10-00)

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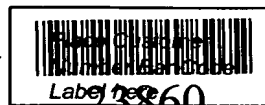
## POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

|                        |                |
|------------------------|----------------|
| Application Number     | 09/819,573     |
| Filing Date            | March 28, 2001 |
| First Named Inventor   | Kiran Kuchi    |
| Group Art Unit         | 2631           |
| Examiner Name          | not known      |
| Attorney Docket Number | NC17533        |

I hereby appoint:

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☐ Practitioner(s) named below:

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☒ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

### SIGNATURE of Applicant or Assignee of Record

Name

Ari Hottinen

Signature

Date

May 17 2001

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☒ \*Total of 3 forms are submitted.

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| Group Art Unit         | 21031          |
| Examiner Name          | not known      |
| Attorney Docket Number | NC17533        |

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### SIGNATURE of Applicant or Assignee of Record

Name

Olav Tirkkonen

Signature

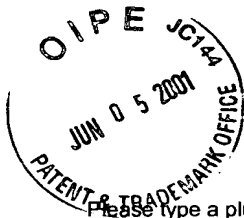
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### SIGNATURE of Applicant or Assignee of Record

Name

Kiran Kuchi

Signature

Date

June 01, 2001

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